

WHAT IS CLAIMED IS:

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1 1. A tracking servo system for guiding a pick-up head
2 to follow an information track, comprising:

3 a first means for sensing and sending notice of
4 displacement between the pick-up head and the center of the
5 information track;

6 a second means for receiving the displacement notice and
7 sending a first correction disproportionate to the
8 displacement;

9 a third means for receiving the displacement notice and
10 sending a second correction disproportionate to the
11 displacement; and

12 a fourth means for receiving the first and second
13 corrections, and producing a driving force proportionate to
14 the sum of the first and second correction for driving the
15 pick-up head to follow the information track.

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17 2. The system as claimed in claim 1 wherein the
18 information track is on an optical disc.

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20 3. The system as claimed in claim 1 wherein the first
21 means is an optical sensor.

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23 4. The system as claimed in claim 1 wherein the pick-up
24 head comprises a lens.

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26 5. The system as claimed in claim 1 wherein the first
27 means sends the displacement with a track error signal.